MISSISSIPPI

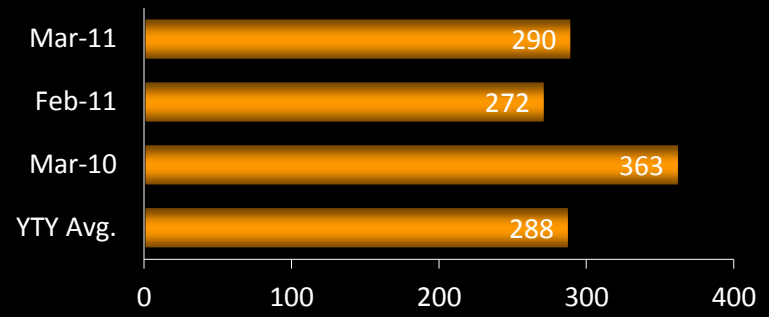
TRANSPORTATION MANAGEMENT CENTER

March 2011 Performance Measures

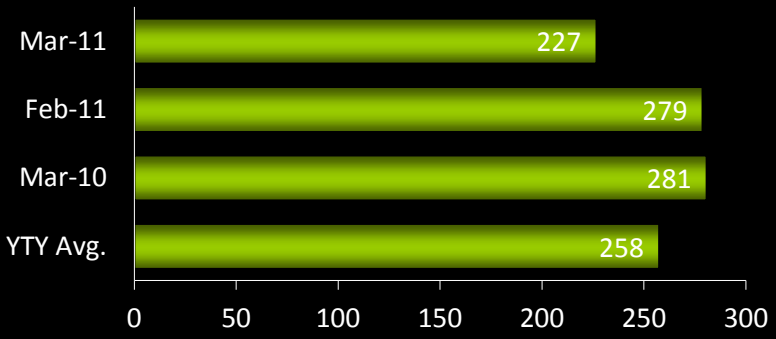
MONTHLY HIGHLIGHT

On Wednesday, March 23rd at approximately 3:15 pm a barge struck the I-20 Mississippi River Bridge in Vicksburg closing the bridge to traffic for just over two hours. On Thursday, March 24th the bridge was again closed from 3:30 pm to 5:30 pm for safety purposes while crews attempted unsuccessfully to remove the trapped barge. For the next two days crews tried to remove the trapped barge but traffic was allowed on the bridge while the work was performed. The bridge closures and subsequent news of the work to remove the trapped barge generated a large spike in incoming phone calls to the TMC from citizens inquiring about their ability to travel across the bridge.

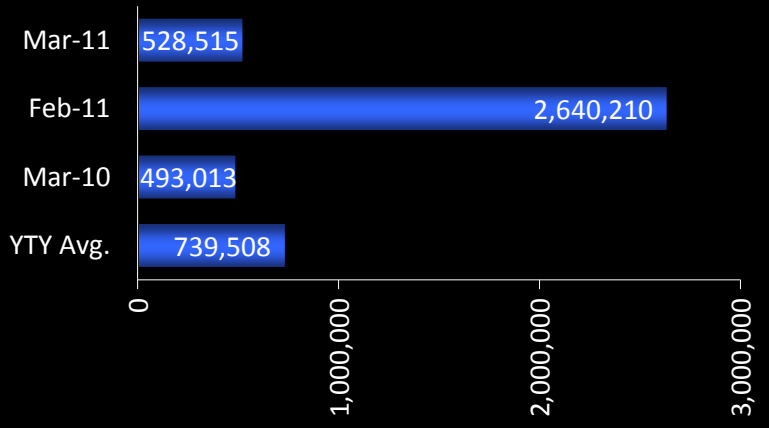
Total Incidents



Total Alerts



Total Web Site Page Views

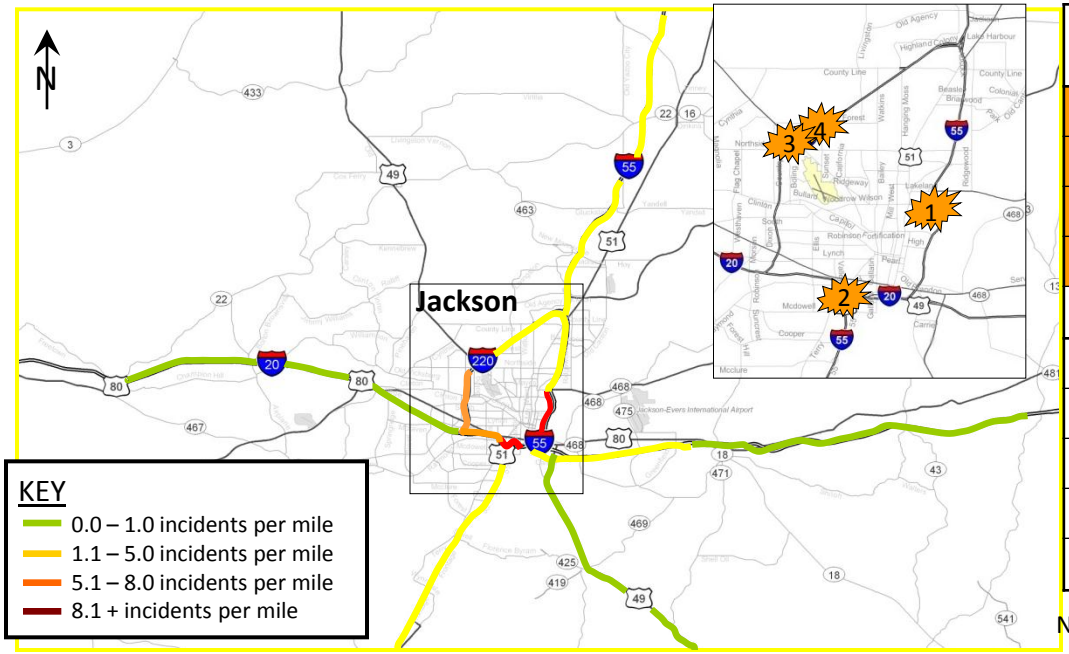


MDOT INTELLIGENT TRANSPORTATION SYSTEM

Statewide Transportation Management Center (TMC)
2567 N. West Street, Jackson, MS 39215
(601) 359-1993

URS

TMC Managed Incidents Per Mile

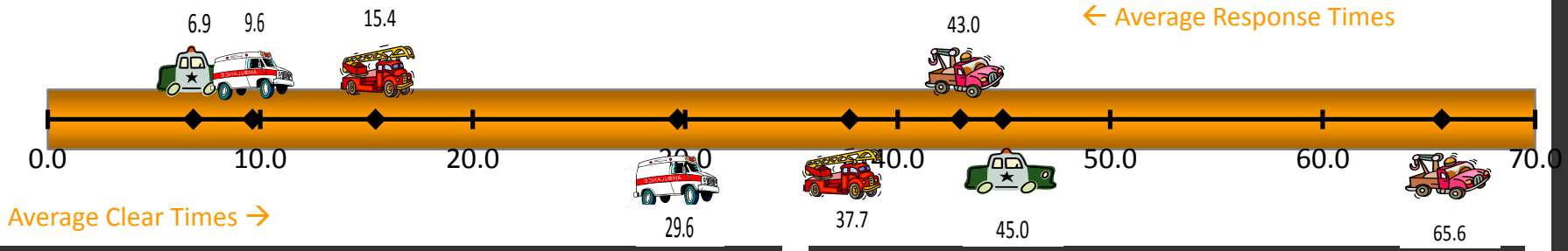


Incident Hot Spots

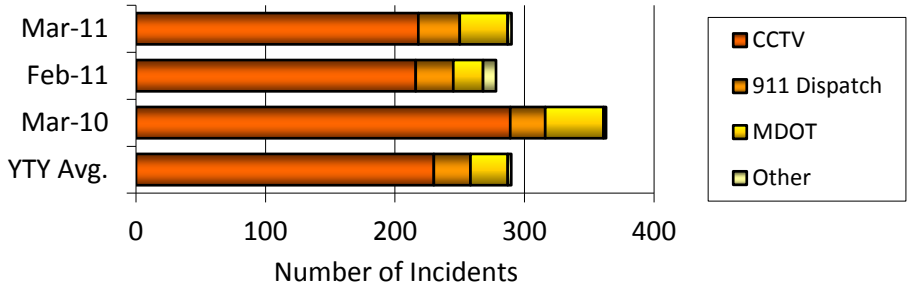
Rank	Location (Direction Freeway @ Cross Street)	# of Incidents
1	NB I-55 @ Fortification St	12
2	NB I-55 @ McDowell Rd	12
3	SB I-220 @ Hwy 49 / Medgar Evers	10
4	NB I-220 @ Hwy 49/Medgar Evers Blvd	9
5	SB I-55 @ Elton Rd	9
6	SB I-55 @ Northside Dr / Meadowbrook	9
7	EB I-20 @ Gallatin/ State St.	8
8	SB I-55 @ Interstate 220 North	8
9	EB I-20 @ Terry Rd.	8
10	NB I-55 @ High St	7

Note: Highlighted locations are mapped based on # of Incidents.

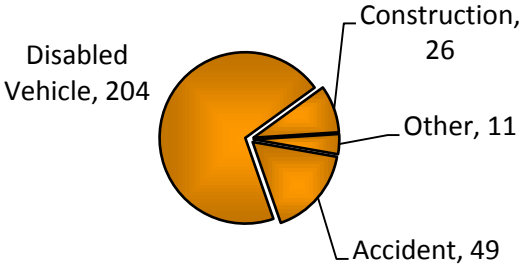
Average Incident Timeline



Incidents by Source Detected



Incidents by Type

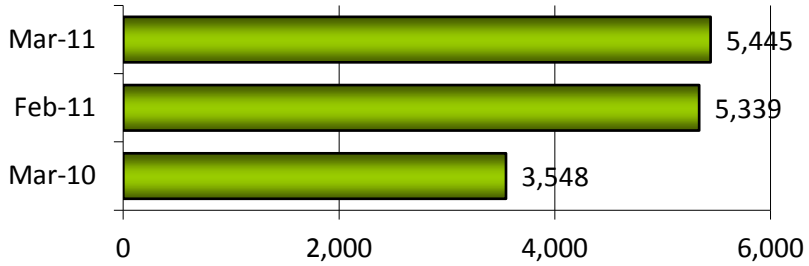


incidents

What is an Alert?

The Mississippi Transportation Management Center has the ability to send notifications in the form of e-mail or text message to registered users regarding incidents or events that affect operations along the freeways. These notifications are known as "Alerts." To receive these alerts, go to www.mstraffic.com and click on "Register."

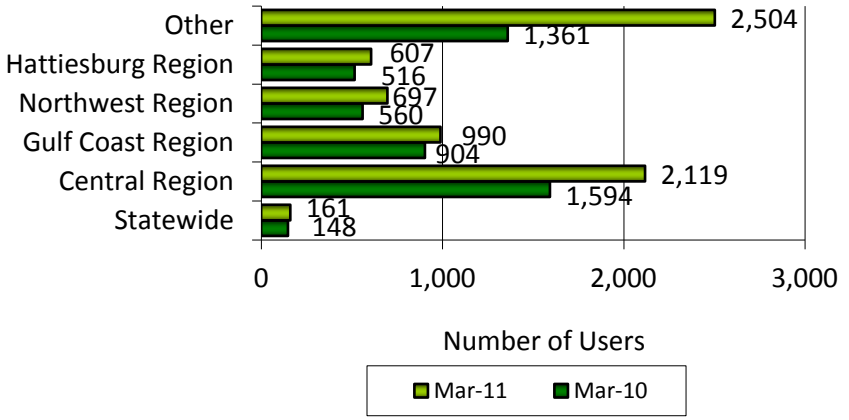
Total Registered Alert Users



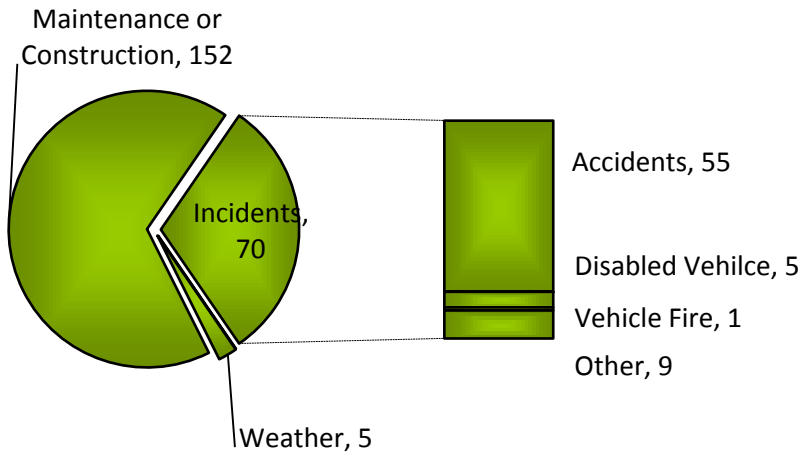
This month 187 new users registered to receive alerts.

This month 81 existing users unregistered.

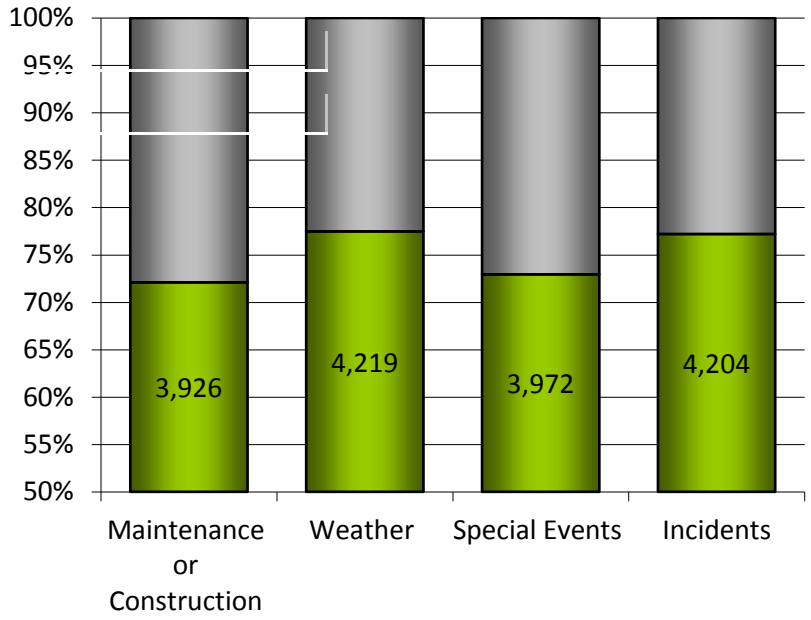
Registered Users by Location



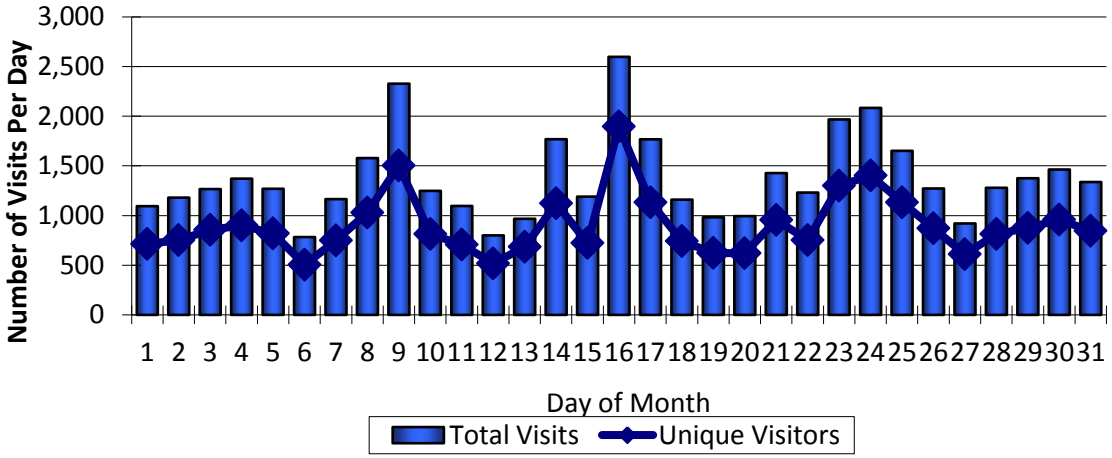
Alerts by Type



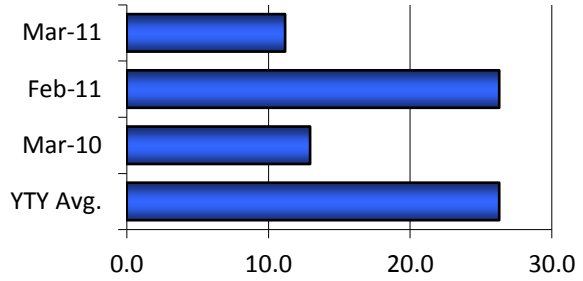
Registered Users by Alert Type



Web Site Visits per Day



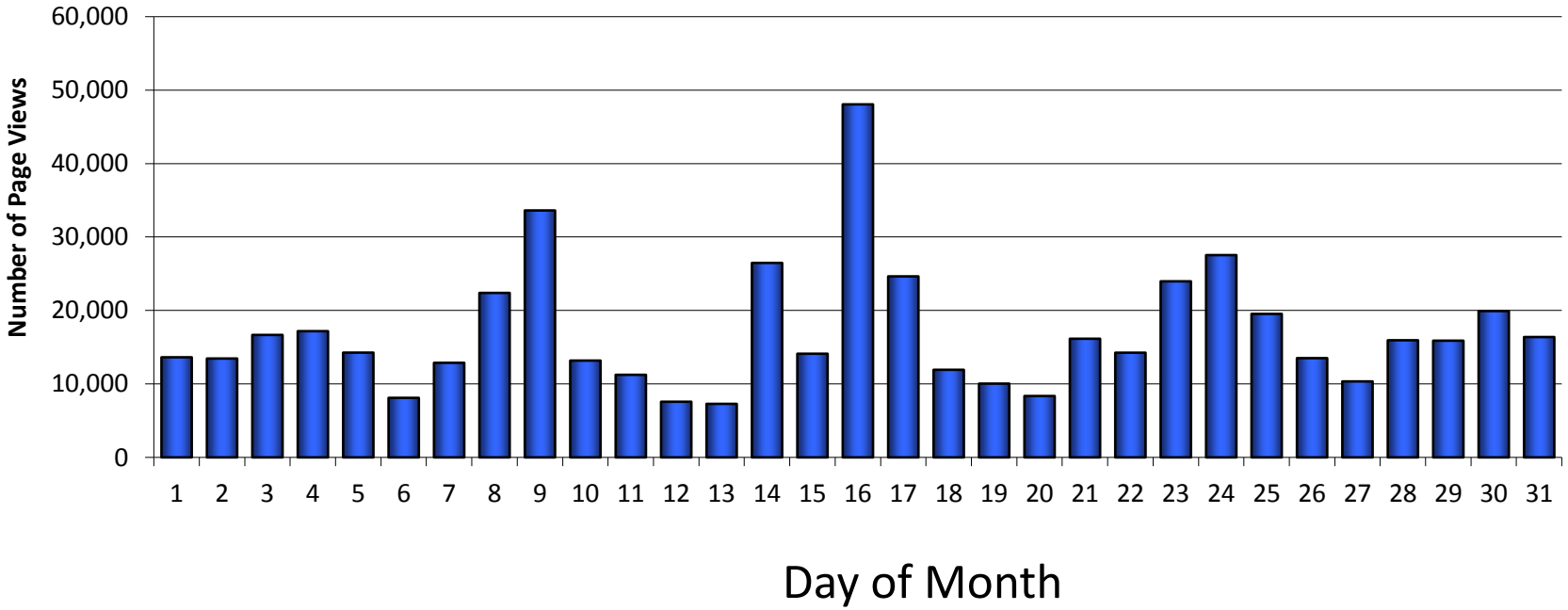
Average Page Views Per Visit



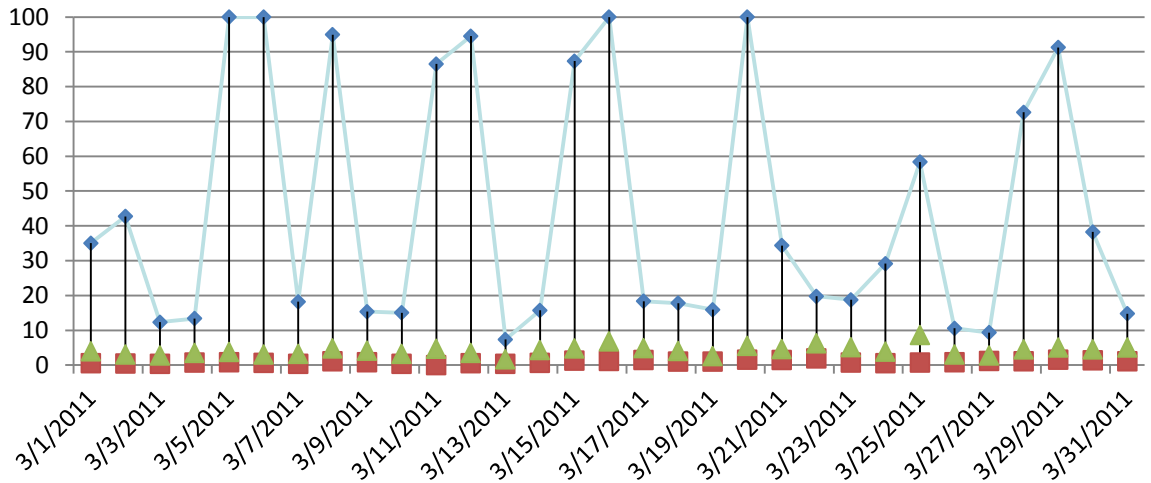
Average Stay Length Per Visit

This month, the average stay length per visit was 12.4 minutes.

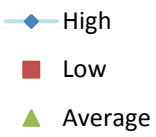
Web Site Page Views per Day



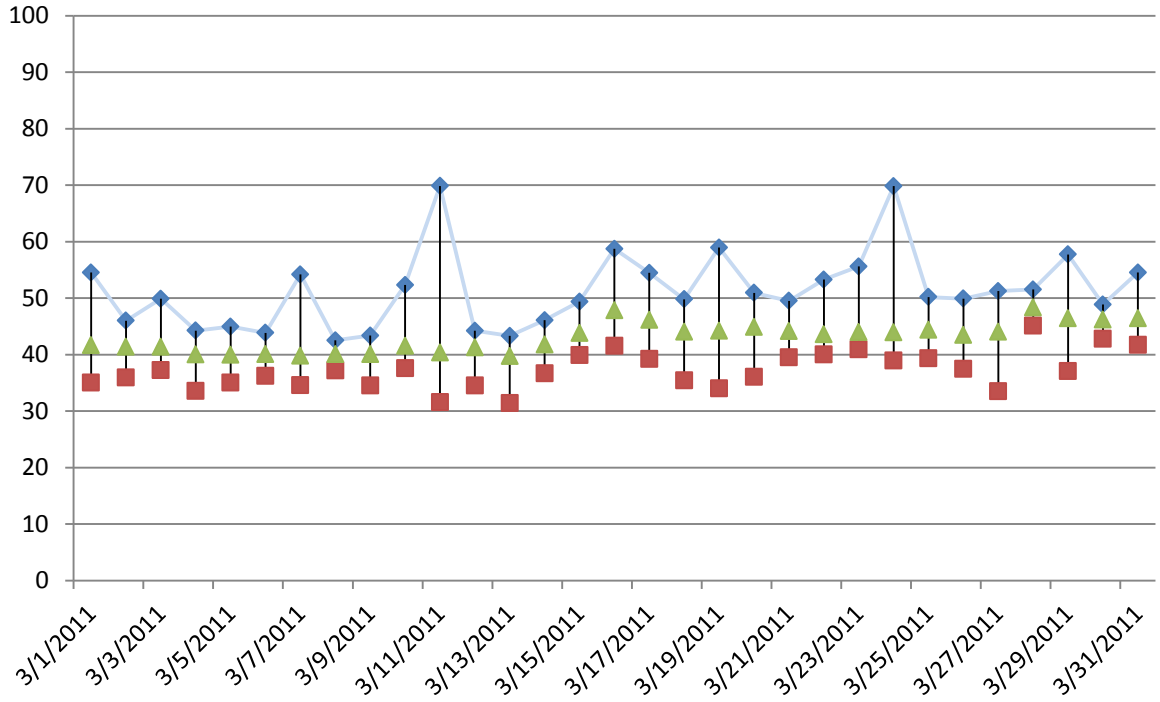
Internet Bandwidth Traffic



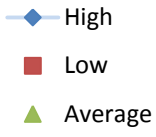
High	100.00
Average	4.24
Low	0.00



Camera Bandwidth Traffic



High	69.86
Average	43.05
Low	31.39



Bandwidth Stats

data key

COVER (page 1)

Monthly Highlight

Description: The cover page provides a general summary of the month. The information portrayed in the "Monthly Highlight" section changes from month to month.

Data Source: TMC Operator's and Manager's Logs.

Total Incidents

Description: This graph compares the total number of incidents managed by the control room in current month, previous month, current month last year, and the average monthly total over Year to Year (YTY) which includes the previous twelve months of data.

Data Source: Incident Tracking Database

Total Alerts

Description: This graph compares the total number of alerts sent in the current month, previous month, current month last year, and the average monthly total over Year to Year (YTY) which includes the previous twelve months of data.

Data Source: MS Traffic User Stats Monthly Report

Total Web Site Page Views

Description: This graph compares the total number of pages that were viewed on the www.mstraffic.com Web site in the current month, the previous month, the current month last year, and the average monthly total over the last twelve months. A page view is counted every time a visitor opens a page within the www.mstraffic.com Web site.

Data Source: Web Log Analyzer Monthly Report

INCIDENTS (page 2)

TMC Managed Incidents Per Mile

Description: This map shows the density of incidents that occur along MDOT monitored roadways in the greater Jackson area. The number of incidents is shown as a density to provide a consistent measure between roadways. The roadways are divided into segments where the major roadways intersect.

Data Source: Incident Tracking Database

Incident Hot Spots

Description: This table lists the top ten locations (assigned by the nearest cross street) where the greatest number of incidents occurred per month. The top incident hot spots are shown on the map inset.

Data Source: Incident Tracking Database

Incident Average Duration

Description: This graphic shows the average response and clear times for incident response vehicles for a small sampling of incidents. The response and clear times for police, fire, ambulance, tow, and MDOT vehicles are shown. Response Times are the time of arrival to the scene minus the time of incident detection by the TMC. Clear Times are the time of incident clearance minus the time of responder arrival to the scene. Response Times greater than 120 minutes and Clear Times greater than 180 minutes are filtered from the data to remove extreme cases that skew the data.

Data Source: Incident Tracking Database

Incidents by Source Detected

Description: This graph shows the number of incidents that were found by closed-circuit (CCTV) cameras, 911 Dispatch (MS Highway Patrol, County Sheriff's Office, Local Police & Fire), MDOT, or other sources. Totals for the current month, the previous month, the current month last year, and the monthly average over Year to Year (YTY) which includes the previous twelve months of data.

Data Source: Incident Tracking Database

Incidents by Type

Description: This chart shows the distribution of incidents by type for the current month. Construction, Disabled Vehicles, and Accidents account for the majority of all incidents. "Other" incidents include Vehicle Fire, Debris, HAZMAT, AMBER Alerts, Weather, and Congestion type incidents. The number of secondary incidents will appear next to the chart if not less than 1% of the total number of incidents. A secondary incident is an incident that occurred as a result of another incident.

Data Source: Incident Tracking Database

data key

ALERTS (page 3)

Total Registered Users

Description: This graph compares the total number of users that are registered to receive alerts in the current month, the previous month, and the current month last year. The number of users that either registered or unregistered in the current month is also shown in the text below the graph.

Data Source: MS Traffic User Stats Monthly Report

Registered Users by Location

Description: This graph shows the breakdown of registered users based on location. The location refers to the location of the event to which the alert is referring, not the location of the user. The location is further defined by the counties that make up each Regional TMC's coverage area. The current month and the current month last year are compared.

Central Region: Copiah, Hinds, Madison, Rankin, Simpson counties
Gulf Coast Region: Hancock, Harrison, and Jackson counties
Northwest Region: Desoto, Marshall, Tate, and Tunica counties
Hattiesburg: Forrest, Jones, Lamar, and Perry counties
Statewide: Users registered for every county in the state
Other: All counties other than above

Data Source: MS Traffic User Stats Monthly Report

Alerts by Type

Description: This graph shows the distribution of alerts by type for the current month. Accident, Incident, and Maintenance or Construction alerts comprise the majority of alerts.

Data Source: MS Traffic User Stats Monthly Report

Registered Users by Alert Type

Description: This graph provides the percentage and total number of registered users that receive maintenance or construction, weather, special event, or incident alerts for the current month based upon current subscriber statistics.

Data Source: MS Traffic User Stats Monthly Report

WEB SITE (page 4)

Web Site Visits Per Day

Description: This graph shows the total number of visits to the www.mstraffic.com Web site per day for the current month. A "visit" is counted when the Web site is accessed, regardless of the number of pages viewed within the site. The graph also shows the number of unique visitors per day. A unique visitor is identified by the IP address of the computer used to access the Web site. If a unique visitor returns to the Web site within thirty minutes of the original visit, only 1 visit is counted.

Data Source: Web Log Analyzer Monthly Report

Average Page Views Per Visit

Description: This graph shows the average number of pages viewed within the www.mstraffic.com Web site during one visit. The current month, the previous month, the current month last year, and the monthly average over Year to Year (YTY) which includes the previous twelve months of data are compared.

Data Source: Web Log Analyzer Monthly Report

Average Stay Length Per Visit

Description: The average length of time spent on the www.mstraffic.com Web site during each visit, regardless of the number of pages viewed.

Data Source: Web Log Analyzer Monthly Report

Web Site Page Views Per Day

Description: This graph shows the total number of pages viewed within the www.mstraffic.com Web site each day during the current month. The text below the graph explains any unique trends seen in the data throughout the month.

Data Source: Web Log Analyzer Monthly Report

data key

WEB SITE (page 5)

Internet Bandwidth Traffic

Description: This graph displays the average bandwidth speed of our mstraffic.com internet pipeline which has a capacity of 100 megabits per second. The data is reported on a per minute basis and an average bandwidth speed is derived for each day. The high and low bandwidth speeds are also reported for each day.

Data Source: Paessler Prtg Network Monitor

Camera Bandwidth Traffic

Description: This graph displays the average bandwidth speed of our mstraffic.com intranet camera network pipeline which has a capacity of 100 megabits per second. The data is reported on a per minute basis and an average bandwidth speed is derived for each day. The high and low bandwidth speeds are also reported for each day.

Data Source: Paessler Prtg Network Monitor